This circular will be sent regularly to all who apply for it.

United States Department of Agriculture.

WASHINGTON, D. C., *November 30, 1917.*

MONTHLY LIST OF PUBLICATIONS.

[NOVEMBER, 1917.]

READ CAREFULLY BEFORE ORDERING.

☞Send no Remittances to the U. S. Department of Agriculture.

A copy of any of the publications listed herein, except those otherwise noted, may be obtained free upon application to the Chief of the Division of Publications, United States Department of Agriculture, Washington, D. C., as long as the department's supply lasts.

After this department's supply is exhausted, publications can still be obtained from the Superintendent of Documents, Government Printing Office, Washington, D. C., but by purchase only, and at the prices noted herein.

☞Send all remittances to the Superintendent of Documents direct. His office is not a part of the Department of Agriculture.

SPECIAL NOTICE.

Before mailing your request be sure and see that your name and complete post-office address (street number or rural route number as the case may be) is attached.

FARMERS' BULLETINS—FOR FREE DISTRIBUTION.

☞NOTE.—The department's supply of the current numbers of Farmers' Bulletin is ordinarily sufficient to make it possible to send them free to all applicants. They are also for sale at 5 cents per copy.

Homemade Silos. By Helmer Rabild and K. E. Parks, Dairy Division. Pp. 55, figs. 47. Contribution from the Bureau of Animal Industry. **(Farmers' Bulletin 855.)**

A revision of Farmers' Bulletin 589 and suitable for general distribution.

Screw-Worms and Other Maggots Affecting Animals. By F. C. Bishopp, Entomologist, and J. D. Mitchell and D. C. Parman, Entomological Assistants, Southern Field-Crop Insect Investigations. Pp. 20, figs. 8. Contribution from the Bureau of Entomology. **(Farmers' Bulletin 857.)**

Of especial interest to stock raisers of the Southwest.

The Use of Windmills in Irrigation in the Semiarid West. By P. E. Fuller, Irrigation Engineer. Pp. 38, figs. 11. Contribution from the Office of Public Roads and Rureau Engineering. **(Farmers' Bulletin 866.)**

A revision of Farmers' Bulletin 394 and of interest to irrigation farmers.

The Muskrat as a Fur Bearer, with Notes on Its Use as Food. By David E. Lantz, Assistant Biologist. Pp. 23, figs. 4. Contribution from the Bureau of Biological Survey. **(Farmers' Bulletin 869.)**

A revision of Farmers' Bulletin 396 and suitable for general distribution.

Grains for Western North and South Dakota. By F. Ray Babcock, John H. Martin, and Ralph W. Smith, Scientific Assistants in Cereal Investigations. Pp. 22, figs. 9. Contribution from the Bureau of Plant Industry. **(Farmers' Bulletin 878.)**

Of interest to farmers in the west half of North and South Dakota and the east fourth of Montana.

Irrigation of Orchards. By Samuel Fortier, Chief of Irrigation Investigations. Pp. 40, figs. 30. Contribution from the Office of Public Roads and Rural Engineering. **(Farmers' Bulletin 882.)**

A revision of Farmers' Bulletin 404, and of interest to fruit growers on irrigated lands.

Grains for the Utah Dry Lands. By Jenkin W. Jones, Scientific Assistant, Office of Cereal Investigations, and Aaron F. Bracken, Assistant Agronomist, Utah Agricultural College. Pp. 22, figs. 8. Contribution from the Bureau of Plant Industry. **(Farmers' Bulletin 883.)**

For farmers and settlers in the dry lands of Utah.

Fleas and Their Control. By F. C. Bishopp, Entomologist, Insects Affecting the Health of Animals. Pp. 15, figs. 5. Contribution from the Bureau of Entomology. **(Farmers' Bulletin 897.)**

A revision of Farmers' Bulletin 683, and suitable for general distribution.

Laws Relating to Fur-Bearing Animals, 1917. A Summary of Laws in the United States and Canada Relating to Trapping, Open Seasons, Propagation, and Bounties. By David E. Lantz, Assistant Biologist. Pp. 32. Contribution from the Bureau of Biological Survey. **(Farmers' Bulletin 911.)**

For general distribution.

The Application of Dockage in the Marketing of Wheat. Pp. 12, fig. 1. Contribution from the Bureau of Markets. **(Farmers' Bulletin 919.)**

This bulletin explains to grain farmers and dealers, the method of determining dockage and its relation to the marketing of wheat under the United States grains standard Act.

DEPARTMENTAL BULLETINS—TECHNICAL.

☞The publications listed below are technical or scientific treatises or bulletins applying to a special industry or locality. The edition is limited, but they will be furnished free to persons who can use such specialized information as long as the supply lasts. However, to insure prompt receipt, remit price to the Superintendent of Documents.

Maple Sugar: Composition, Methods of Analysis, Effect of Environment. By A. Hugh Bryan, formerly Chief, Sugar Laboratory, in Collaboration with M. N. Straughn, C. G. Church, A. Given, and S. F. Sherwood, Assistant Chemists. Pp. 46, figs. 2. Contribution from the Bureau of Chemistry. (Professional Paper.) Nov. 3, 1917. **(Department Bulletin 466.)** Price, 5 cents.

Of interest to manufacturers of and dealers in maple sugar.

Standard Forms for Specifications, Tests, Reports, and Methods of Sampling for Road Materials, as recommended by the First Conference of State Highway Testing Engineers and Chemists, Washington, D. C., Feb. 12 to 17, 1917. Pp. 56, fig. 1. Contribution from the Office of Public Roads and Rural Engineering. Nov. 26, 1917. **(Department Bulletin 555.)** Price, 10 cents.

Of interest to Engineers, Chemists, and Road Contractors generally.

Increased Cattle Production on Southwestern Ranges. By James T. Jardine, Inspector of Grazing, and L. C. Hurtt, Grazing Examiner. Pp. 32, pls. 12, figs. 2. Contribution from the Forest Service. Nov. 15, 1917. **(Department Bulletin 588.)** Price, 15 cents.

Gives results of experiments which bear directly on the problem of how to produce more and better cattle on western range lands.

Courses in Secondary Agriculture for Southern Schools. (Third and Fourth Years.) By H. P. Barrows, Specialist in Agricultural Education. Pp. 40. Contribution from the States Relations Service. (Professional Paper.) Nov. 5, 1917. **(Department Bulletin 592.)** Price, 5 cents.

For use of teachers in southern schools.

The Sweet-Potato Leaf-Folder. By Thos. H. Jones, Entomological Assistant, Truck-Crop Insect Investigations. Pp. 12, figs. 4. Contribution from the Bureau of Entomology. (Professional Paper.) Nov. 22, 1917. **(Department Bulletin 609.)** Price, 5 cents.

Report on spraying experiments for its control in southern Texas by M. M. High, and at Baton Rouge, La., by the author.

The Economical Winter Feeding of Beef Cows in the Corn Belt. By J. S. Cotton, Office of Farm Management, and Edmund H. Thompson, Scientific Assistant, Bureau of Animal Industry. Pp. 16, fig. 1. Contribution from the Office of Farm Management and the Bureau of Animal Industry. Nov. 15, 1917. **(Department Bulletin 615.)** Price, 5 cents.

Of interest to farmers and stock raisers in the corn belt.

The Utilization of Waste Tomato Seeds and Skins. By Frank Rabak, Chemical Biologist, Drug-Plant and Poisonous-Plant Investigations. Pp. 15. Contribution from the Bureau of Plant Industry. (Professional Paper.) Nov. 30, 1917. **Department Bulletin 632.)** Price, 5 cents.

Of interest to manufacturers of tomato products.

MISCELLANEOUS.

Swine-Judging Suggestions for Pig-Club Members. By J. D. McVean and F. G. Ashbrook, of the Animal Husbandry Division. Pp. 14, figs. 4. Contribution from the Bureau of Animal Industry. November, 1917. **(Circular 83, Office of the Secretary.)** Price, 5 cents.

Intended mainly for beginners in the study of hog judging, and members of boys' and girls' pig clubs.

The Work of the Umatilla Reclamation Project Experiment Farm in 1915 and 1916. By R. W. Allen, Farm Superintendent. Pp. 39, figs. 3. Nov. 24, 1917. **(W. A. I. 17. Bureau of Plant Industry.)** Price, 5 cents.

SERIALS.

Journal of Agricultural Research. (For sale only.) Vol. 11, No. 6. Nov. 5, 1917. Contents: Run-Off from the Drained Prairie Lands of Southern Louisiana. (kk D–14.) By Charles W. Okey.—Diagnosing White-Pine Blister-Rust from Its Mycelium. (km G–125.) By Reginald H. Colley. Pp. 247–286, pl. 1, figs. 6. Price, 15 cents.

Same, Vol. 11, No. 7. Nov. 12, 1917. Contents: Effect of Temperature Aeration and Humidity on Jonathan-Spot and Scald of Apples in Storage. (kn G–126.) By Charles Brooks and J. S. Cooley.—Studies in Greenhouse Fumigation with Hydrocyanic Acid: Physiological Effects on the Plant. (kl Minn–21.) By William Moore and J. J. Willaman.—Effect of Pumping from a Shallow Well on the Ground-Water Table. (kj Cal.–11.) By Walter W. Weir. Pp. 287–357, pls. 3, figs. 50. Price, 25 cents.

Same, Vol. 11, No. 8, Nov. 19, 1917. Contents: Reactions of the Phosphorus of the Thickened Root of the Flat Turnip (ko. R. I.–1). By Burt L. Hartwell, F. S. Hammett, and P. H. Wessels.—Three-Lined Fig-Tree Borer (kp, K–58). By J. R. Horton.—A Statistical Study of Body Weights, Gains, and Measurements of Steers During the Fattening Period (kq, Pa.–3). By B. O. Severson and Paul Gerlaugh.—Life History of Ascaris lumbricoides and Related Forms (ky, A–32). By B. H. Ransom and W. D. Foster. Pp. 359–398, pls. 5. Price, 15 cents.

Same, Vol. 11, No. 9. Nov. 26, 1917. Contents: Experiments in Field Technic in Rod Row Tests. (kr Minn.–22.) By H. K. Hayes and A. C. Arny.—Hydrocyanic-Acid Gas as a Soil Fumigant. (ku Cal.–12.) By E. Ralph de Ong.—Enzyms of Milk and Butter. (kt Minn.–23.) y R. W. Thatcher and A. C. Dahlberg. Pp. 399–450, pl. 1, fig. 1. Price, 15 cents.

☞NOTE.—Beginning with volume 5 the Journal of Agricultural Research has been issued weekly and is distributed free *only* to the libraries of agricultural colleges and experiment stations, to large universities, technical schools, and such institutions as make suitable exchanges with the department. *It will not be sent free to individuals.* The Superintendent of Documents will receive subscriptions for this publication, the price being $3 per year, 52 numbers.

Experiment Station Record. Vol. 37, No. 5, October, 1917. E. W. Allen, Ph. D., Editor. Pp. 401–500. Price, 15 cents.

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Same. Vol. 36, Index Number. Pp. i–xxv, 901–987. Price, 15 cents.

☞NOTE.—The Record is a technical review of the world's scientific literature pertaining to agriculture. It is not intended for general distribution, and its free distribution is restricted to persons connected with the agricultural colleges, experiment stations, and similar institutions, and to libraries and exchanges. It can not be sent free to individuals having no official connection with public institutions. The Superintendent of Documents will receive subscriptions for this publication, which is issued in two volumes a year, 10 numbers each, at $1 a volume.

The Monthly Crop Report. Vol. 3, No. 11, November, 1917. Pp. 105–116. (Bureau of Crop Estimates.)

Contains data relating to agriculture, including estimates of acreage, conditions, yields, prices, and value of crops and live stock. For free distribution.

SERVICE AND REGULATORY ANNOUNCEMENTS—FOR SALE ONLY.

☞These contain *only* information, instructions, and notices governing the enforcement of food and drugs act, meat inspection, 28-hour and quarantine laws, and the various regualtions of the department. Issued monthly by certain bureaus. *Free distribution* is limited to persons in the employ of the department, to public officials whose duties render it necessary for them to have such information, to journals especially concerned, and to manufacturers and firms whose business is affected by same. Others desiring copies are respectfully referred to the Superintendent of Documents, Government Printing Office, who has them for sale *only*, at prices noted.

Bureau of Chemistry. No. 21. Pp. 67–80. Nov. 12, 1917. Price, 5 cents.

Federal Horticultural Board. No. 44. September, 1917. Pp. 111–118. Nov. 3, 1917. Price, 5 cents.

Insecticide and Fungicide Board. No. 18. Pp. 321–327. Nov. 30, 1917. Price, 5 cents.

Bureau of Markets. No. 29. Pp. 5. Nov. 17, 1917. Price, 5 cents.

SOIL SURVEYS.

☞All requests for soil surveys are referred to the Bureau of Soils for attention, the distribution of same being controlled by that bureau.

Soil Survey of San Saba County, Texas. By J. O. Veatch, R. F. Rogers, M. W. Beck, and H. G. Lewis. Pp. 66, fig. 1, map. (From F. O. Soils, 1916.) Price, 15 cents.

Reconnoissance Soil Survey of South Part of North-Central Wisconsin. By W. J. Geib, Arthur E. Taylor, J. B. R. Dickey, and Carl Thompson, of the U. S. Department of Agriculture, and T. J. Dunnewald and Clinton B. Post, of the Wisconsin Geological and Natural History Survey. Pp. 65, pls. 4, figs. 2, map. (From F. O. Soils, 1915.) Price, 15 cents.

PUBLICATIONS OF THE WEATHER BUREAU.

☞Publications of the Weather Bureau are obtainable only from the Chief of the Weather Bureau or the Superintendent of Documents, Government Printing Office, at the prices noted herein.

Monthly Weather Review. (For sale only.) Vol. 45, No. 8. August, 1917. [Nov. 3, 1917.] Pp. 397–438, charts 9, figs. 6. Price, 25 cents a copy, $2.50 per year. Payable to the Superintendent of Documents.

Special Articles: Solar and sky radiation during August, 1917. By H. H. Kimball.—Aurora of August 21, 1917. By D. F. Manning.—Aurora of August 25, 1917, at Washington, D. C. By I. F. Hand; C. Abbe, jr.—Magnetic storm of August 26–27, 1916. By W. E. W. Jackson.—Comparison of Callendar sunshine recorder and Angstrom pirheliometer. By J. Patterson.—Penetrating radiation in the atmosphere. By G. C. Simpson.—Notes on the hot wave in southern California, June 14–17, 1917. By Ford A. Carpenter.—The Weather Bureau and the War.

Daily River Stages at River Gage Stations on the Principal Rivers of the United States. Vol. 14, for the year 1916. By Alfred J. Henry, Professor of Meteorology. Pp. 278. Price, 50 cents.

Climatological Data for the United States by Sections. Vol. 4, No. 7. July, 1917. Price, 35 cents.

Same. Vol. 4, No. 8. August, 1917. Price, 35 cents.

National Weather and Crop Bulletin, No. 32. November, 1917; reporting temperature, rainfall, and crop conditions throughout the United States. Issued weekly, on Wednesday, April to October; monthly remainder of year. Price, 25 cents a year.

JOS. A. ARNOLD,
Chief, Division of Publications.

WASHINGTON : GOVERNMENT PRINTING OFFICE : 1917